

famos

Competence in CSSD





GENERAL

All hospitals and the Medical industry are constantly striving for perfection in sterility.

An important aspect in this matter is the sterilization of instruments and other necessities. However, sterilization alone is not enough; maintaining this sterility for a fixed period of time after the sterilization process is at least as important. In order to assure that the sterility is maintained for a long period of time it is crucial that the packaging is perfectly sealed and that's where Famos comes in.

Famos bv was founded in 1946 in The Netherlands and over the years this family-owned company has gained a lot of experience and an excellent reputation within the medical field due to the reliability and flexibility of its products as well as its customer-oriented approach.

Its extensive experience allows Famos to develop the most sophisticated and reliable heat sealing machines available within the medical and pharmaceutical markets.

Famos was the first company within the medical field that manufactured heat sealing machines that were microprocessor controlled. This quality applies to all rotary heat sealers of the Famos brand.

The built-in printer and parameter control are also features that were introduced within the medical market by Famos.

Famos adapts the software of its heat sealers to the ever changing demands of the medical market and the software is continuously updated with more features and customer specific applications, which results in a continuous improvement of our heat sealers.

Each Famos heat sealer is both internally and externally made of stainless steel, which reduces maintenance to a minimum and offers the best solution as far as hygiene is concerned.



Nowadays, the extensive range of Famos heat sealing equipment comprises more than thirteen different models, which includes some very basic models which are being used in small clinics and dental practices. The core business however consists of more sophisticated rotary sealers which are used within university hospitals and general hospitals as well as the pharmaceutical industries.

Today, over 15.000 heat sealers of the Famos brand are being used world-wide. Famos commits itself to a long-term business relationship with its appointed distributors who have an extensive knowledge of the Famos heat sealing equipment.

Needless to say that the rotary heat sealers are TÜV tested, they carry the CE-mark as well and they comply with the machine guidelines and local electrical standards.

Furthermore they all meet the following standards with exception of the F70 series of impulse series:

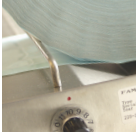
- The Dutch R3280 guideline
- DIN 58953-7:2008
- ISO 11607-2
- EN 868-5

As we believe strongly in the quality of our heat sealing machines Famos gives a warranty of two years on all of its heat sealing equipment, with exception of the motors and the fans. On these parts, there is a warranty period of five years¹.

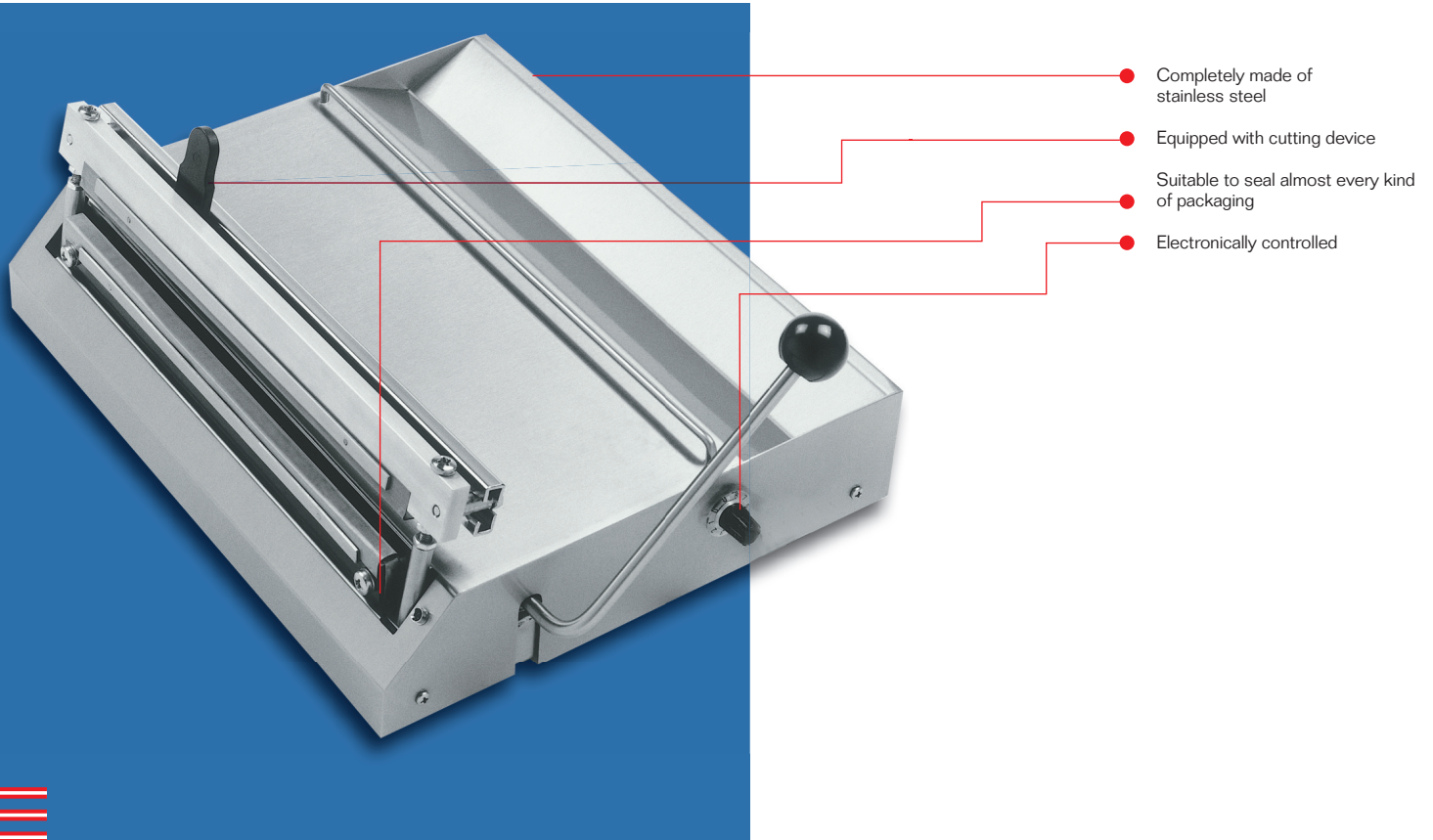
¹) There is no warranty applicable on printer heads, ink cassettes and parts that are subject to wear and tear, like geared belts, drive belts, insulation strips and slide strips.

The insulation on the heating bars should be checked and replaced after every 150,000 pouches that have been sealed or on a yearly basis. Furthermore, Famos is not responsible for damage that is caused during transport.





Integrated roll holder





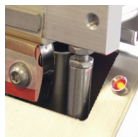
70 SERIES

F70 impulse sealer

The F70 impulse heat sealer is very suitable to use whenever small quantities of seals are being made or to seal material that can not be sealed by rotary heat sealers. They are very suitable for sealing dust covers as well.

The F70 is a very reliable machine that is easy to operate and it provides your packaging material with a perfect seal.

The sealer is manually operated. It is suitable for sealing almost every kind of packaging material such as, Polypropylene, Polyethylene, Tyvek pouches, laminated pouches, paper pouches and other coated materials. Furthermore, it is also ideal for processing packaging material from the roll. For this purpose, the F70 has a built-in roll holder and a cutting device in order to separate the sealed packaging from the roll.



The seal/cooling time is indicated by a led

The F70 impulse sealer is available in the following models:

The F70-300

This model is time-controlled and has an effective seal length of 320mm and a seal width of 8mm.

The F70-400

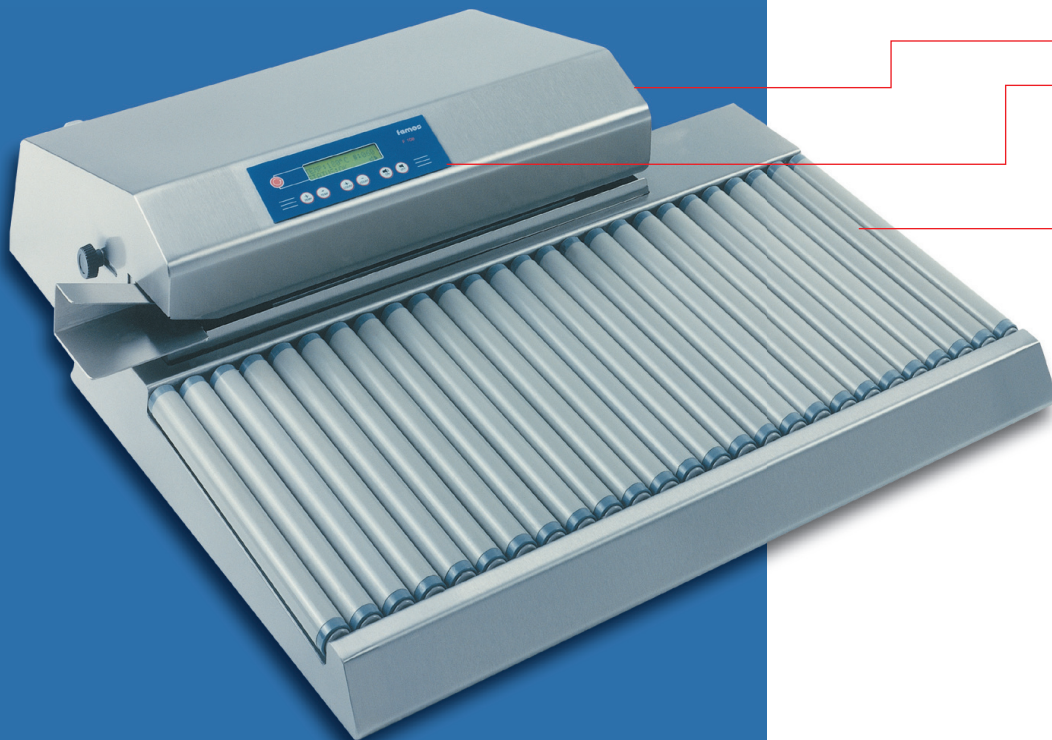
This model is time-controlled as well as temperature-controlled and has an effective seal length of 420mm and a seal width of 8mm.

On page 14 there is an overview of the specifications of our entire heat sealer range





Each sealer is equipped with a service label



- Completely made of stainless steel
- Conveniently arranged LCD-display and keyboard control
- Microprocessor controlled
- In order to increase the convenience of the user even further, a (roller) front table is available as an accessory



F108 SERIES

F108 series rotary heat sealers: F108, F108T, F108TI, F108TX

Famos has rotary heat sealers in its product range for whenever larger quantities need to be sealed.

The F108 series represents the basic models within the Famos rotary heat sealing range, but at the same time these are the most sophisticated models of their kind around the world. Each model has an accurate sealing temperature setting by means of a keyboard which has an LCD display with a good visual read out.

The F108 model is the standard model in this series, while in addition to this model, the F108T is equipped with a production counter with audible alarm.

The F108TI and F108TX both have an automatic transportation start, called EASS², as well as a reverse transportation feature, called RAS³ which ensures safety and prevents the instruments from being damaged.

2) Electronic Automatic Start System

3) Return Assistance System

Version available that
produces a flat seal



Both models are also equipped with another safety feature that stops the machine from sealing when there is a temperature difference of 5°C in regard to the set temperature and the actually measured temperature.

The F108TX is the top model in this series. It has the same specifications as the F108TI, but it offers a production counter with audible alarm in addition.

Each model is available in two versions:

The first version produces a rib seal and is suitable for laminated pouches and paper pouches, to accommodate a controlled opening of the pouch.

The second version produces a flat seal and is suitable for Tyvek material as well as laminated pouches and paper pouches.

On page 14 there is an overview of the specifications of our entire heat sealer range.

Version available that
produces a rib seal





Clear LCD display



flat seal



- Completely made of stainless steel
- Conveniently arranged LCD-display and alphanumeric keyboard control
- Microprocessor controlled
- Equipped with Electronic Automatic Start System
- A Return Assistance System is included in order to prevent pouches that have been misfed from being sealed
- In order to increase the convenience of the user even further, a (roller) front table is available as an accessory

rib seal





F110 SERIES

F110 series rotary heat sealers: F110, F110D, F110DEP, F110DBC

The second series within the range of Famos rotary heat sealers is the F110 series, which consists of four models. The F110 series is being used within larger hospitals and the Pharmaceutical and Medical Device industries where many pouches have to be processed continuously.

All models of the F110 series offer the possibility to make a selection from over twenty different languages within the menu that is being shown in the LCD-display and can be operated by means of an alphanumeric keyboard.

Both the LCD-display and the menu are very conveniently arranged, which makes it very easy to operate the machine without even having to consult the manual.

Not only do the sealers of the F110-series have EASS² and RAS³, but all the F110 models, except for the F110 standard, also have a built-in printer, which depending on the model, can print several items, such as the packing date, expiry date, a code, texts and bar codes on the packaging. The print settings are adjustable and symbols conforming to the EN 980 can be printed.

2) Electronic Automatic Start System

3) Return Assistance System

Over twenty languages
are selectable



The F110DEP and F110DBC models both have the following features:

- Storage of 2000 texts with 30 characters each.
- Connection for a label printer to print the data on labels.
- Connection for PC to enter texts, by means of the software program and connection cable that are supplied with the sealer.

The F110DBC distinguishes itself by being the only model of the F110 series that offers a second built-in printer to print bar code or an additional line of text. A bar code scanner is available as an accessory. Furthermore, the F110DBC can work with many software applications, which generate the bar code and other information that needs to be printed on packaging material.

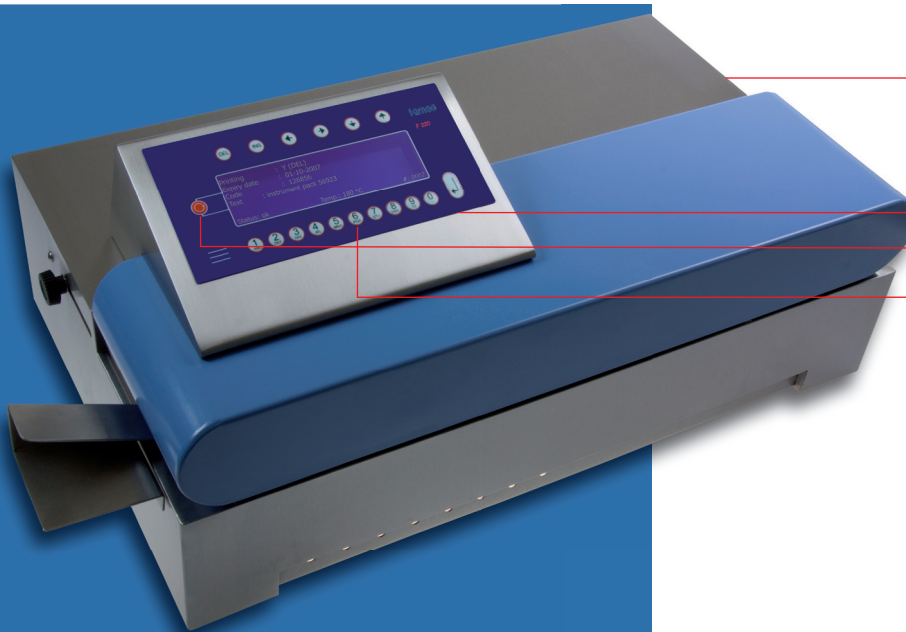
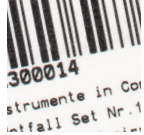
Each model is available in two versions:

The first version produces a rib seal and is suitable for laminated pouches and paper pouches, to accommodate a controlled opening of the pouch.

The second version produces a flat seal and is suitable for Tyvek material as well as laminated pouches and paper pouches.

On page 14 there is an overview of the specifications of our entire heat sealer range





- Completely made of stainless steel
- Conveniently arranged extra large LCD-display and alphanumeric keyboard
- Microprocessor controlled
- Over twenty languages are selectable
- Four expiry times can be pre-set
- Easy to operate without having to consult the manual
- Seal parameter control
- All models have a built-in printer to print various data on packaging
- Equipped with Electronic Automatic Start System
- A Return Assistance System is included in order to prevent pouches that have been misfed from being sealed
- Available with rib seal or flat seal





220 SERIES

F220 series rotary heat sealers: F220D, F220DEP, F220DBC

The F220 series of rotary heat sealers represents the most advanced and secure rotary heat sealers of their kind, which enables the user to use the latest technology.

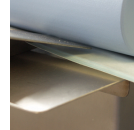
The F220 series represents the most sophisticated rotary heat sealers that are available at the moment. The features which makes these sealers so unique is the constant monitoring of the three seal parameters which are being checked with every single seal. In case one of the three parameters (temperature, speed, pressure) is incorrect the sealer will give the operator a warning and stops sealing.

The F220 series is available in three models: the F220D, F220DEP and F220DBC. Each model of the F220 series is completely controlled and operated by means of a menu in a selectable language in the large built-in graphic LCD display with alphanumeric keyboard.

Both the LCD-display and the menu are very conveniently arranged, which makes it very easy to operate the machine without even having to consult the manual.

Each model is available in two versions:
The first version produces a rib seal and is suitable for laminated pouches and paper pouches, to accommodate a controlled opening of the pouch.

Functional design



The second version produces a flat seal and is suitable for Tyvek material as well as laminated pouches and paper pouches.

All the F220 models have EASS² and RAS³ as well as a built-in printer, which, depending on the model, can print the packing date, expiry date, code, texts and bar codes on the packaging. Furthermore, four expire times can be pre-set, all models of this series have a flexible print start position, their print settings are adjustable and they all can print symbols conform the EN 980 standard.

The F220DEP and F220DBC models both have the following features:

- Storage of 3000 texts with 30 characters each.
- Connection for a label printer to print various data on labels.
- Connection for PC to enter texts, by means of the software program and connection cable that are supplied with the sealer.

On top of these features, the F220DBC offers a second built-in printer to print bar code or an additional line of text. A bar code scanner is available as an accessory. Just like the F110DBC, the F220DBC can work with many software applications, which generate the bar code and other information that needs to be printed on packaging material.

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Height adjustable worktable

Control and packing table



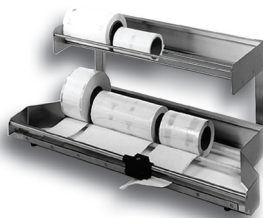
Seal table

To accommodate the heat sealer and its accessories, Famos designed a manually height adjustable sealing table. The table is completely made of stainless steel 304 and is equipped with four Ø75mm swivel castors of which two have a brake. The table is equipped with hooks on both sides of the table to hang baskets or Famos module parts on. The table has a height adjustment of 800-1000mm, which can be done manually by two knobs.



ACCESSORIES

Famos offers the following accessories for its heat sealing equipment:



Roll holder

Famos produces several stainless steel roll holders which includes a self-sharpening cutting device to create the length of packaging material which is required. Furthermore an extension can be added which doubles the storage capacity of the holder. All roll holders are available as a table model or in a version that can be attached to the wall or to an upright partition which is fixed to a worktable.

Thermotransfer label printer

Can be used with DEP and DBC models in order to print labels.

Matrix label printer

Can be used with DEP and DBC models in order to print labels.



Bar code scanner

Available for DBC models.

Roller front table

As an accessory for the rotary heat sealers, stainless steel roller front tables are available. These tables provide a supporting platform for the packaging material while heat sealing. The rollers guide heavy packaging more easily through the heat sealing machine and prevent the heavy weight from causing bad seals.

Front table

As an accessory for the rotary heat sealers, stainless steel front tables are available. These tables provide a smooth supporting platform for the packaging material while sealing.



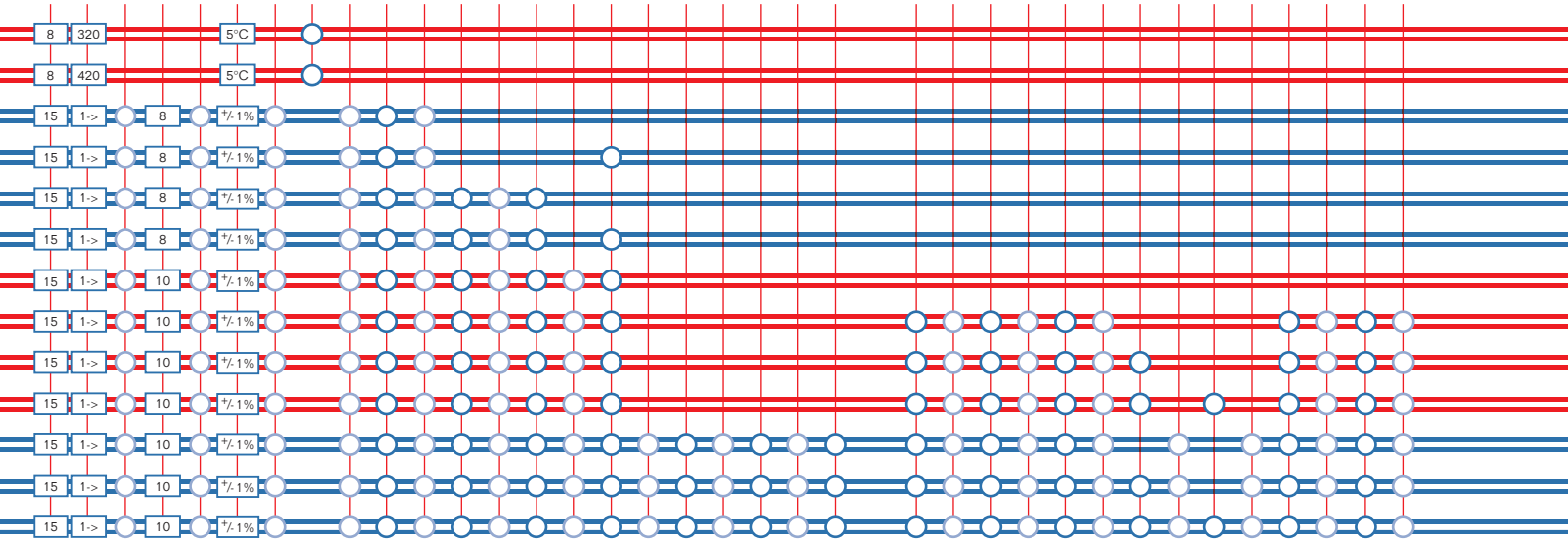


MATRIX LIST



SERIES	TYPE	General specifications																							
		Impulse heat sealer	Rotary heat sealer	Version available with rib seal	Version available with flat seal	Completely made of stainless steel	Integrated roll holder	Integrated cutting device	110/ 120 VAC. Mains voltage 50/60 Hz	220/240 VAC. Mains voltage. 50/60 Hz	Weight (kilos)	Electronically controlled	Analogue operation	Microprocessor controlled	Digital menu operation	Serial communication	Internal printer	Possibility for external label printing	Keyboard control	Alphanumeric keyboard	Clock and calendar function	Intake protection	Retention of data	Number of lines in display	
F70	300									9															
F70	400									10															
F108										12														2	
F108	T									12														2	
F108	TI									12														2	
F108	TX									12														2	
F110										18,5														2	
F110	D									18,5				1										2	
F110	DEP									18,5				1										2	
F110	DBC									18,5				2										2	
F220	D									19,5				1										6	
F220	DEP									19,5				1										6	
F220	DBC									19,5				2										6	

Seal width in mm
 Seal length in mm
 Self adjusting pressure
 Transportation speed (... m/min)
 Temperature adjustment (100-199°C)
 Temperature tolerance conform DIN58953-7
 Over heating protection
 Seal/cooing time indication (LED)
 Digital temperature indication
 Seal edge adjustment
 Stand-by function
 Reverse transport
 Automatically start of the transportation
 Safety auto insert feed (within temp. range $\pm 5^{\circ}\text{C}$)
 Service counter
 Resettable production counter with alarm
 Service menu which indicate seal parameters
 Second temperature sensor
 Transportation speed sensor
 Pressure sensor pressure roll
 Continuous monitoring of seal parameters
 Adjustable limits of seal pressure parameters
Printing possibility
 Adjustable print start position
 Date as: dmy/ynd/mdy
 Adjustable character width
 Packing and expiry date
 Alphanumeric code (Pers.no. / batch)
 Text
 Seal parameters
 Second line printer for text or bar code
 Selectable printing sequence
 CE symbol
 EN980 symbols
 On/off function printer
 Rotation of 180° of text





Programming options

- Display in user's language
- Maintenance and calibration sound warning
- Programmable expiry times
- Expiry time adjustment up to 99 days
- Flexible line printing format
- Flexible label printing
- Flexible label format
- Maxi

Programming options

- Display in user's language
- Maintenance and calibration sound warning
- Programmable expiry times
- Expiry time adjustment up to 9999 days
- Flexible line printing format
- Flexible label printing format
- Maximum 2000 texts with 30 characters each
- Maximum 3000 texts with 30 characters each
- Code of maximum 20 characters
- Programming by external PC
- Communication software

Options

From

Front table
Roller from

Front table
Roller from

Max:

Maximum power consumption (in Watts)

Dimensions in mm (LxWxH)

Power consumption

Dimensions in mm (LxWxH)

World-wide dealer network

Two year warranty on all heat sealers

Free software updates by e-mail

Free technical support by phone

World-wide delivery of spare parts within four days





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